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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/989,745	11/20/2001	Mark S. Garrison	680.0039USU	9671

7590 11/17/2004
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EXAMINER

YU, GINA C

ART UNIT PAPER NUMBER

1617

DATE MAILED: 11/17/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/989,745

Applicant(s)

GARRISON ET AL.

Examiner

Gina C. Yu

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-7,10,12-16,20 and 22-35 is/are pending in the application.
- 4a) Of the above claim(s) 31-35 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,3-7,10,12-16,20 and 22-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on August 12, 2004 has been entered.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 3-7, 10, 12-16, 20, 22-30 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The inconsistent usage of the term "compound" in the claims 1, 12-16, and 26-28 renders the claims vague, indefinite, and confusing. Claim 1 recites that the composition comprises "a volatile compound", and further recites, "wherein the volatile compound has one or more perfluorobutyl ethers". The term "compound" as known in the art denotes a single substance. The claim is vague, indefinite, and confusing because it is not clear whether applicants mean to claim a single or multiple volatile compound. Claims 14 and 15 further state, "the volatile compound further has", as though the volatile compound is composed of more than one species. And then claim

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16 recites that the volatile compound *is* a specific substance, i.e., perfluoromethylcyclohexane. How can a volatile compound which, according to claim 1, "has one or more perfluorobutyl ethers", be perfluoromethylcyclohexane? It is not clear whether applicants mean to claim a composition comprising both perfluorobutyl ether and perfluoromethylcyclohexane, or just perfluoromethylcyclohexane alone. For examination purposes only, it is assumed that claims 14 and 15 require the combination of perfluorobutyl ether and perfluoroalkylcycloalkane. It is also assumed that perfluoromethylcyclohexane alone is used in claim 16, as recited by the claim.

Claims 20 and 22 depend on claim 18, which is a canceled claim.

The remaining claims are rejected as depending on indefinite base claim.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 3-7, 10, 12-16, 18, 22-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bara et al. (US 6224851 B1) in view of Occupational Safety & Health Administration data (Chemical Sampling Information: Ethyl Perfluorobutyl Ether), Tsutsumi et al. (JP 356079613A) and Bretescu (US.6528070 B1).

Bara teaches cosmetic composition water-in-oil emulsion foundation comprising 20 % by weight of perfluoromethylcyclopentane. See col. 8, Example 2; instant claims 10 and 16. The reference teaches, "the perfluoromethylcyclopentane can advantageously be replaced with an equivalent amount of ethoxynonafluorobutane". See col.8, lines 21-23. The reference teaches that ethoxynonafluorobutane is

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commercially available as HFE 7200 by 3M (Novec), which is ethoxy perfluorobutane, another name for perfluorobutyl ether. See col. 3, lines 21 – 26. For claims 14 and 15, the idea for combining compounds each of which is known to be useful for the same purpose, in order to form a composition which is to be used for the same purpose, flows logically from their having been used individually in the prior art. See In re Kerkhoven. As shown by the recited teachings the instant claims define nothing more than the concomitant use of conventional perfluoro oil compounds that are interchangeably used in the same cosmetic composition. It would follow that combining perfluorobutyl ether and perfluoromethylcyclohexane is a prima facie obvious subject matter.

The reference teaches using methoxynonafluorobutane and ethoxynonafluorobutane in col. 2, lines 15 – 44, particularly in col. 3, lines 4-7. See instant claims 13. Oil-in-water emulsion is also taught in col. 6, lines 11 – 25. See instant claim 3.

The reference teaches that the fluorinated solvents disclosed therein have vapor pressure that is greater than 20 mbar at 25 °C and boiling points between 20-75 °C, thus the reference suggests that perfluoromethylcyclopentane and ethoxy- and methoxynonafluorobutane are within this limitation. See col. 2, lines 8 – 14; col. 3, lines 14 – 18. The reference is silent as to the specific vapor pressure of the volatile perfluoro solvents.

Bara fails to indicate the “texture” of the composition. Also, while Bara does not indicate the specific viscosity of the composition, the reference teaches that the emulsions are “preferably in the form of creams”. See col. 7, line 8.

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OSHA data teaches that ethyl perfluorobutyl ether has vapor pressure of 109 mmHg (145.32 mbar) at 25 °C.

Tsutsumi teach that whipped stable cosmetic that is "without oil off and shape collapse" is well known in the art. See Abstract, Purpose. While the reference teaches that the whipped cosmetic may be used in a lipstick, foundation, emulsion or cream without emulsifier, there is no teaching of using an aerosol container. See Constitution. See instant claim 29. The whipped stable composition is said to be without "shape collapse", which is viewed to be equivalent property to the claimed textured surface-renewing property.

Bratescu teaches cosmetic emulsions. The reference teaches that the viscosity of the composition can vary from thin as 100 cps, to cream like consistency of 80,000 cps. See col. 13, lines 33-35. See instant claims 1, 4-6, 26,

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the composition of Bara by producing a whipped composition as motivated by Tsutsumi because 1) both references teach cosmetic emulsion and cream form of foundation; 2) Tsutsumi teaches the benefit of stability of the composition in terms of phase separation and shape without using emulsifiers; 3) and the skilled artisan would have had a reasonable expectation of successfully producing a stable whipped cosmetic composition. It would have been also obvious to the skilled artisan to have adjusted the viscosity of the composition of the combined references to the viscosities of cosmetic compositions as motivated by Bratescu,

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because of an expectation of successfully producing the cosmetic compositions with desired viscosities.

Response to Arguments

Applicant's arguments with respect to claims 1, 3-7, 10, 12-16, 20, and 22-30 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

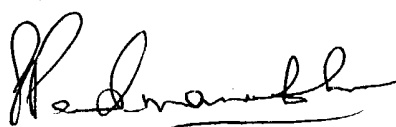
No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gina C. Yu whose telephone number is 571-272-0635.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gina Yu
Patent Examiner


SREENI PADMANABHAN
SUPERVISORY PATENT EXAMINER